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K A R L S R U H E R Nuklidkarte

J. Magill | G. Pfennig | R. Dreher | Z. Solti 8. Auflage 2012

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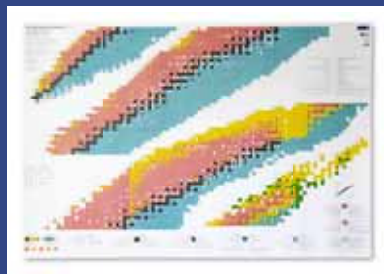


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A Record of Human Achievement in Nuclear Science

The 8th Edition of the “Karlsruher Nuklidkarte” contains new and updated radioactive decay data on 737 nuclides not found in the previous (2006) edition. In total, nuclear data on 3847 experimentally observed ground states and isomers are presented. The new element names copernicium (symbol Cn, element 112), flerovium (symbol Fl, element 114) and livermorium (symbol Lv, element 116) have been introduced. Most recent values of the atomic weights, isotopic abundances and cross sections are included together with the thermal fission yields for both ^{235}U and ^{239}Pu . For twelve elements, a range of atomic weights is given to reflect the isotopic variability in natural materials. The accompanying booklet contains the multi-lingual “Explanation of the Chart of the Nuclides” in English, German, French, Spanish, Russian and Chinese. The text has been considerably revised to include an “Examples” section which is used to describe in detail how the nuclide box contents should be interpreted with reference to the nuclide decay scheme.

For more than 50 years, the Karlsruhe Nuclide Chart has provided scientists and students with structured, accurate information on the half-lives and decay modes of radio nuclides, as well as the energies of emitted radiation. Beyond the more traditional physical sciences such as health physics and radiation protection, nuclear and radiochemistry, and astrophysics, the Chart is now in wide and common usage in the life and earth sciences (biology, medicine, agriculture, geology, etc.). An important characteristic of the Chart is its great didactic value in education and training in the nuclear sciences. It has been used in training programmes worldwide and is a valuable and welcome addition to the many books on nuclear science including school physics textbooks. Although many nuclear data sources are available on the internet, the Karlsruhe Nuclide Chart provides a unique overview of current knowledge and is for many the preferred medium for ease of use, convenience and practicality.